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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/03/2008

William S Frommer Frommer Lawrence & Haug 745 Fifth Avenue New York, NY 10151 EXAMINER
BLACKMAN, ROCHELLE ANN J

PAPER NUMBER

ART UNIT

DATE MAILED: 06/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/532,328	04/22/2005	Satoshi Imai	450100-04798	1689		
TITLE OF INVENTION: OPTICAL UNIT AND IMAGING DEVICE						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ig the Pa ierwise i	atent, advance or in Block 1, by (a	ders and notification specifying a new o	of n	naintenance fees w pondence address;	ill be and/o	mailed to the current (b) indicating a sepa	corresponden ate "FEE AI	ce address as DDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
William S From Frommer Lawre 745 Fifth Avenu	nce & Haug ie	/2008			I her State addr trans	Cert reby certify that thi es Postal Service w essed to the Mail smitted to the USP	ificate s Fee(ith sul Stop FO (57	of Mailing or Transi s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	nission deposited wi class mail in above, or be ite indicated b	th the United an envelope ing facsimile selow.
New York, NY	10151								Œ	Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMA	TION NO.
10/532,328 04/22/2005 TITLE OF INVENTION: OPTICAL UNIT AND IMAGING DEVICE			NG DEVICE	Satoshi Imai				450100-04798	168	9
APPLN, TYPE	SMALL ENTITY	ISSI	UE FEE DUE	PUBLICATION FEE I	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DAT	E DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	09/0	3/2008
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BLACKMAN, RO	OCHELLE ANN J		2862	396-349000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignce is ident h in 37 CFR 3.11. Comp	nge of C Indicated Use	Correspondence ion form of a Customer PRINTED ON	(I) the names of or agents OR, alte (2) the name of a registered attorned 2 registered patent listed, no name with the PATENT (print of the patent).	up to rnativ single y or a t attor ill be or typ the pa	e firm (having as a agent) and the name meys or agents. If a printed. ee) atent. If an assigne assignment.	membes of u	er a 2p to p to e is 3	cument has b	seen filed for
Please check the appropr	iate assignee category or	categori	ies (will not be pr	inted on the patent):	۵	Individual 🚨 Co	rporati	on or other private gro	up entity 🗖	Government
4a. The following fee(s) are submitted: Issue Fee				A. Psyment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Psyment by redulicant. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overspayment, to Deposit Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY state	is. See 3	7 CFR 1.27.					FITY status. See 37 CE		
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	tes Pater	nt and Trademark	Office.	0				signee or	pursy III
Authorized Signature				Date						
Typed or printed name			Registration No.							
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William S Frommer			BLACKMAN, ROCHELLE ANN J			
Frommer Lawrence	e & Haug		ART UNIT	PAPER NUMBER		
745 Fifth Avenue New York, NY 10151			2862 DATE MAIL ED: 06/03/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 375 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 375 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/532,328	IMALET AL.			
Examiner	Art Unit			
ROCHELLE-ANN BLACKMAN	2862			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to RCE and amendment filed on 13 March 2008.
- 2. The allowed claim(s) is/are 10-14.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

Art Unit: 2862

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul A. Levy on June 2, 2008.

The application has been amended as follows: The abstract will be replaced with the following new abstract:

A collapsible type optical unit is described that is capable of moving its optical system between a working position and a retracted position as well as an image-pickup apparatus including the optical unit. The optical unit and the image-pickup apparatus are capable of acquiring lens-position information by detecting a position of a lens barrel supported to be movable with respect to a fixed barrel. The collapsible type optical unit includes a second group lens frame movable along a direction of its optical axis with respect to a fixed ring and rear barrel, and a solid-state image-pickup device provided behind the second group lens frame, in which on the movable second group lens frame, a position-detecting means for detecting a position of the second group lens frame is provided.

Art Unit: 2862

Drawings

The following changes to the drawings are required by the examiner and must be made by applicant:

The last page of the Drawings contains a "Description of reference symbols", which is not a Drawing and therefore should not be apart of the "Drawings". Applicant needs to add the "Description of reference symbols" to the Specification. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

In order to avoid abandonment of the application, applicant must make these above drawing changes.

Art Unit: 2862

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claim 10 has been found to be allowable because the prior art of record either alone or in combination neither discloses nor makes obvious the optical unit of a collapsible type comprising the particular feature of position-detecting means provided within the fixed barrel, in combination with the particular feature a position of the zoom lens frame being detected by the position-detecting means between the collapsed position and wide position and the particular feature of the position of the zoom lens frame not being detected by the position-detecting means between the wide position and the telephoto position, further in combination with the other particular combination of features recited in claim 10.

Claims 11 and 12 have been found to be allowable because they depend from claim 10.

Claim 13 has been found to be allowable because the prior art of record either alone or in combination neither discloses nor makes obvious the image-pickup apparatus comprising the particular feature of position-detecting means provided within the fixed barrel, in combination with the particular feature a position of the zoom lens frame being detected by the position-detecting means between the collapsed position and wide position and the particular feature of the position of the zoom lens frame not being detected by the position-detecting means between the wide position and the telephoto position, further in combination with the other particular combination of features recited in claim 13.

Art Unit: 2862

Claim 14 has been found to be allowable because they depend from claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROCHELLE-ANN BLACKMAN whose telephone number is (571)272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on (571) 272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2862

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rochelle Blackman/ Primary Examiner, Art Unit 2862

RB